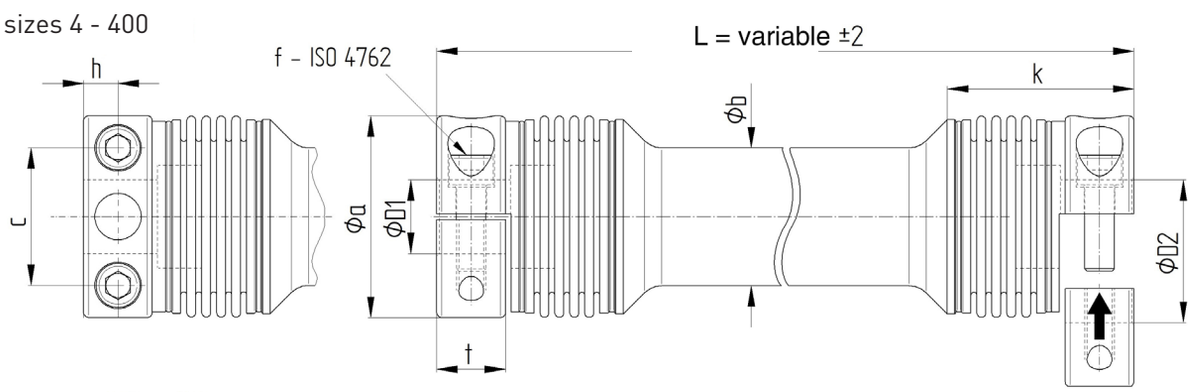
Metal bellows coupling with intermediate pipe I Series WDZ

- variable lengths from 50 to 240 mm
- easy to assemble half-shell clamping hub
- backlash-free, precise torque transmission, no additional intermediate bearing
- high-speed and torsional stiffness
- low moment of inertia

technical data:

WDZ Size	nominal torque [Nm]	torsional stiffness [Nm/arcmin]	moment of inertia [10^{-3}kgm^2]	mass [kg]	max. operating speed [min^{-1}]	max. lateral shaft misalignment [mm] L_{min}	L_{max}	f-tightening torque*
4	4	0,3	0,01	0,1	20.000	0,3	2,8	2x M3 - 2 Nm
16	16	0,5	0,03	0,2	20.000	0,4	2,6	2x M5 - 8 Nm
50	50	2,8	0,32	0,7	17.000	0,6	2,6	2x M8 - 35 Nm
100	100	4	0,6	1,2	14.000	0,7	2,5	2x M10 - 65 Nm (50)
200	200	8	1,6	1,5	12.000	0,8	2,5	2x M12 - 115 Nm (80)
400	400	22	4,2	3	10.000	0,8	2,5	2x M14 - 180 Nm (140)

max. temperature range: -40°C bis +200°C
max. permissible axial misalignment: Δ A = ± 1,5 mm / maximum angular shaft misalignment: α = 1°



material:
Metal bellows: stainless steel 1.4571 / A4
Hubs: Size 4 - 16: stainless steel / Size 50-400: high-strength aluminum
Intermediate tube: Size 4 - 16: stainless steel / size 50-400: high-strength aluminium
Screws: ISO 4762 Q 12.9 - coated

Dimensions [mm]: length dimensions according to DIN ISO 2768 cH

WDZ size	Øa	Øb	c	h	k ± 1	t	L min	L max	ØD1/2 min	ØD1/2 max(*)
4	25	15	16	4,5	23	10	50	200	3	11
16	36	22	22	7	35	13	75	200	6	16
50	58	37	36	13	66	26	130	200	8	25
100	75	44	47	13	68	26	135	210	12	35 (31)
200	89	56	56	14	76	28	150	220	18	42 (34)
400	109	74	72	15	84	30	165	240	24	55 (48)

Øa: interfering edge – screw head
(*) notice: reduced tightening torque (value in brackets) for bigger shaft diameter - see D1/2max

order example: WDZ 200 L = 160 D1 = 32 ^{F6} D2 = 35 ^{F6}